|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Measurement  configuration | DAQ range | DAQ mode | INA gain | Cutoff freq (-3dB) | Sqrt of bandwidth | Value | Noise level | Noise density |
| [土 V] | (unitless) | [1/s] | [√Hz] | V | [V rms] | [uV/√Hz] |
| Whatever on the scale | 5 | RSE | 501 | No filter | √250000 (G=1000) | -0.0103143 | 0.00137777 | −20.6286 |
| 33.9 | 5.8223706512 | -0.0103104 | 0.000714744 | −1770.825084 |
| 0.33 | 0.57445626465 | -0.00908462 | 0.000128013 | −15814.29355 |

**GAIN: G = 1 + 50kΩ / RG**

\*Resistance 1 Megohms

\* C: 4.7 nF

\* C : 0.47 uF

**Gain**

Gain is basically a measure of how much an amplifier “amplifies” the input signal.

* Decrease bandwith --🡪 decrease noise